



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR FOURTH YEAR SECOND SEMESTER EXAMINATIONS

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF ENVIRONMENTAL STUDIES

COURSE CODE: GEO 3232
COURSE TITLE: SOIL SURVEY AND MAPPING

DATE: 25TH APRIL, 2019

TIME: 1430 - 1630HRS

INSTRUCTIONS TO CANDIDATES

INSTRUCTIONS: ANSWER ALL QUESTIONS IN SECTION A (25MARKS) AND THREE IN SECTION B (45 MARKS)

SECTION A (25 MARKS)

1. Distinguish between the following terms:
 - a. Intensity of mapping versus map Scale **(2 mk)**
 - b. General-purpose vs Special-purpose classification **(2 mk)**
 - c. Demand-driven vs. supply-driven surveys **(2 mk)**
 - d. Soil Series vs Soil Phase **(2 mk)**

2. Write short notes on the following terms and concepts; **(3mks)**
 - a. Soil Survey,
 - b. Minimum-size delineation,
 - c. Orders of soil survey.

3. Relate the connection between soil taxonomy, soil classification and soil survey. **(3mk)**

4. Give an overview of types of any three (3) types soil surveys, scale, purpose and methods. **(6 mks)**
 - a. Exploratory
 - b. Reconnaissance
 - c. Semi-Detailed
 - d. Detailed

5. Briefly describe any three factors that influence the soil structure **(5 mks)**

SECTION B (45 MARKS)

6. For you to succeed as a professional in your chosen field, being knowledgeable on matters relating to soil survey and mapping is essential. Discuss. **(15 mk)**

7. In sufficient details discuss the taxonomic properties used to classify soils. **(15 mks)**

8. In sufficient details, discuss the usefulness of soil survey reports and maps **(15 mks)**

9. Discuss in sufficient details the five essential steps for carrying out a soil survey. **(15 mks)**

//END